Operating Manual

Model : SI-100W

1st Edition April. 2007

ACOM

Prefare

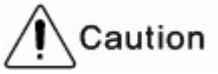
Acom Inc. would like to thank you for your choosing our model SI-100W Smart Bench Scale. We are committed to creating high quality low maintenance products and supplying our customers with diligent customer service.
This manual contains information how to assemble and use the scale properly.

Specification

Model	SI-100W					
Capacity	60kg	60kg	150kg	150kg	300kg	300kg
Minimum graduation	20g	10g,20g	50g	20g,50g	100g	50g,100g
Maximum tare	Full Tare					
A/D conversion speed	9 times / second					
Display (digit)	VFD or LCD weight (5)					
Maximum counting	3,000 pcs					
Designators (g ⇔ version)	Zero, Net, Stable,(g,lb)					
Mode	Normal, Counting, Limit, Pound (option)					
Power source	DC adaptor 9V 300mA or Dry battery DM1.5V x 6ea (choose one)					
Power consumption	Approximately 1.3W					
Products size (mm)	60kg / 150kg		(W)400 x (D)675 x (H)850			
	300kg		(W)510 x (D)790 x (H)850			
Weighing Pan Size (mm)	60kg / 150kg		(W)400 x (D)525			
	300kg		(W)510 x (D)635			

Precaution before assembling and using

- Warning / Caution

	It means that improper using will be directly connected with serious injury or decease.
	It means that improper using will be directly connected with serious injury or materialistic damage.

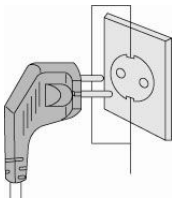
- Marks

	Must not be done.
	Prohibit of disassembling.
	Must be followed the indication.
	Plug must be separated with power condenser.

Warring

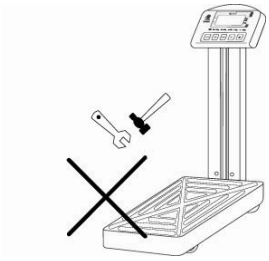
The power cable must be prevented from any harmfulness.

Prohibition

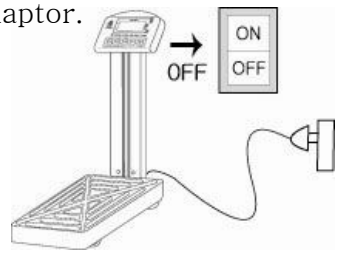


Do not remanufacture intentionally.

Prohibition



Must turn off the power and plug in the adaptor.

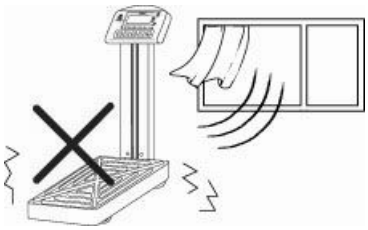


Must be careful of moisture and water.

Prohibition

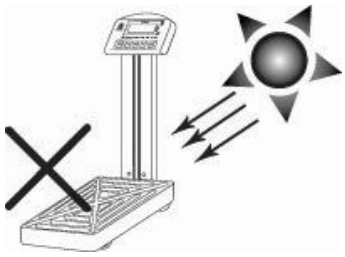
Caution

Place the scale on a flat and rigid desk that is free of vibrations.



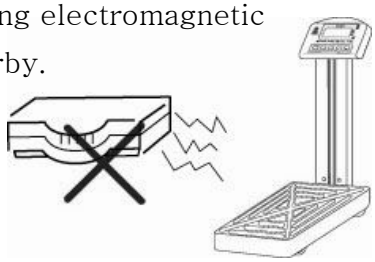
Place the scale out of direct sunlight.

Prohibition



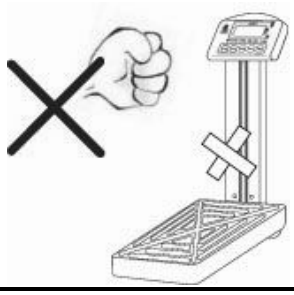
Do not use a radio device which emits strong electromagnetic fields nearby.

Prohibition



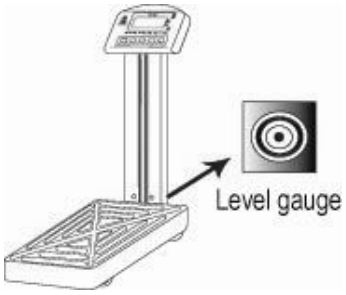
Do not apply sudden impact to the platter.

Prohibition



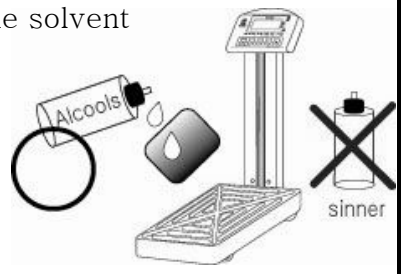
Caution

Always level the scale.

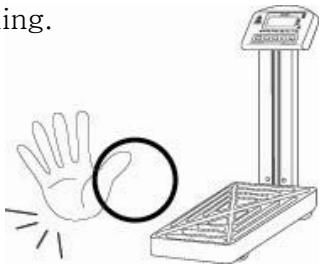


Do not use a cleaner which is included the solvent or sinner.

Prohibition



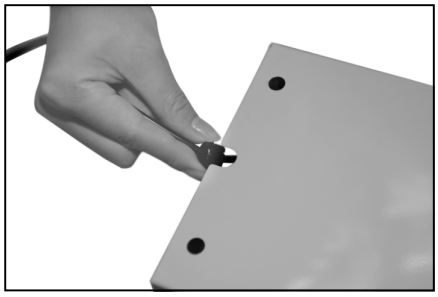
Put the gloves on whenever carrying on or assembling.



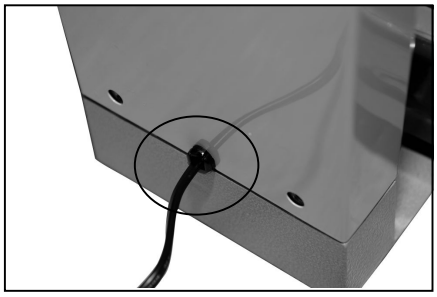
Must take the regular calibration.

Assembling

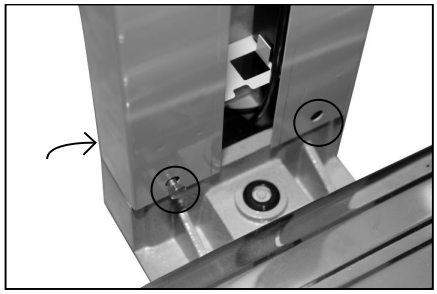
Unwrap the package from the scale.
Place the scale on the flat place.



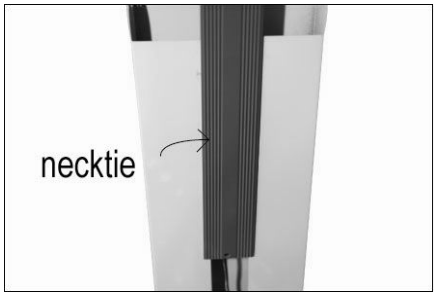
Using the cord-stopper, adjust the wire under the pole likely the photo.



Insert the bracket into the pole.

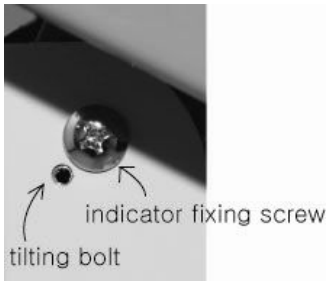


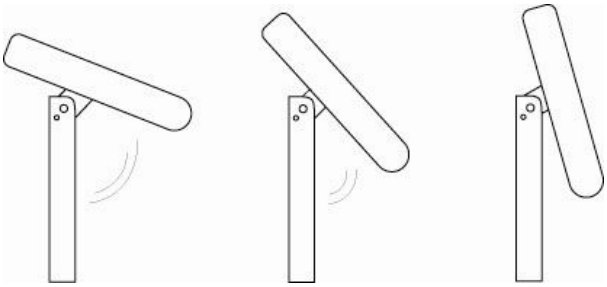
Tighten the each bolt (4ea).



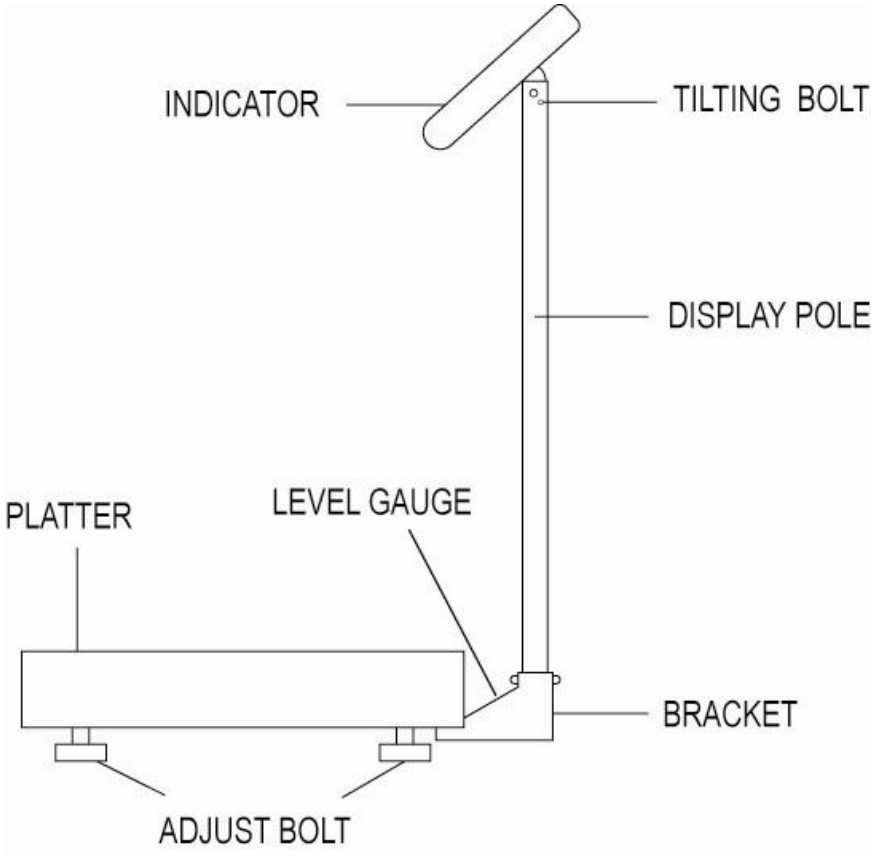
Make the load cell's and adaptor's wire out top of the pole.
Inset the necktie.

After put the load cell jack into the connector, fix it using by the load cell fixed parts.
The back side indicator, which is round shape of groove needs to be posited likely photo.
Put the adaptor's secondary plug into the indicator jack.





Name of the parts Key and function



Key and function

ZERO	This key is used to restore as “0” on the weighing display. It can be worked when the “STABLE” is shown at the designators.
TARE	This key is used to set or remove the tare weighing It can be worked when the “STABLE” is shown at the designators.

This key is used to change the mode.

This key is used to set the unit weight of sample in the count mode. Furthermore, it is used to set the Max. and Min. in the limit mode.

This key is used to extend the function as a spare key. It is used to set the user parameter simply. It is also very convenient to measure the livestock or unstable material.

Designators

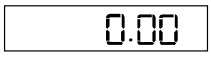
NAME	FUNCTION
Zero	It indicates the centered zero.
Stable	It indicates the stable status of weighing
Tare	It indicates the tare set.
Batt.	It indicates the battery's discharge.

Operating

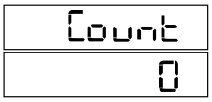
1. Mode function

Press the [MODE] key, it will be changed likely as below ordering.

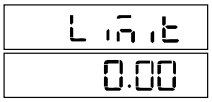
- Normal



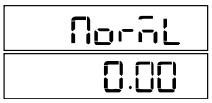
- [MODE] Press the Key. (Count)



- [MODE] Press the Key. (Limit)



- [MODE] Press the key, the scale will be restored the "Normal" Mode

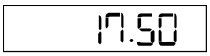


2. General weighing

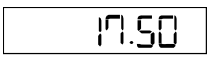
Before using, please check the "Zero" on the designator.

After "stable" is marked on, read weighing value.

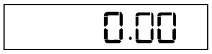
- Place the commodity on the platter.



- Read the weighing value after "stable" is marked on.

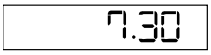


- Remove the commodity.

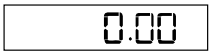


3. Weighing with tare

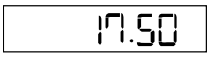
- Place the tare on the platter.



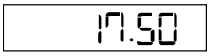
- Press the [Tare] key, the tare weighing will be set.
  The weighing display will be marked on “0”.
  The designator will be marked “net”.



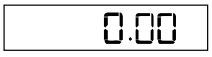
- Place the commodity into the tare.



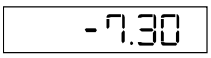
- After “stable” is marked on, read weighing value.

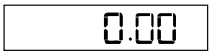


- Remove the commodity.



- Remove the tare and press the [Tare] key.

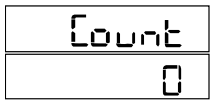




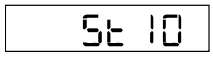
4. Counting mode

The possible counting quantity shall be 10, 20, 50, and 100.
Please refer the table 1-1.

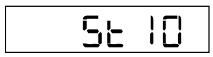
- [MODE] Press the key. (Count)



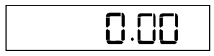
- [SET] Press the key. (Set 10)



- Place 10pcs of samples which are need to be measured.

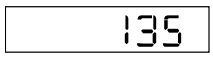


- After the “Stable” is marked on, press the [SET] key.



* When the “SET 20” or above quantity is marked on, the total sample weighing is smaller. So, more quantities are needed.

- Start to count.

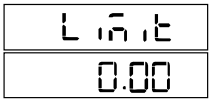


* The set sample’s weighing will be saved in the memory, it can be memorized even when the mode is changed or the power supply is off.
When the power is on, the previous counting mode can be set automatically.

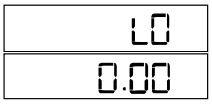
Item	SI-100W			
	60kg	120kg	150kg	300kg
Min. unit weight	20g	40g	50g	100g
Min. sample weight	2kg	4kg	5kg	10kg
Max. counting	3,000 PCS			

5. Limit mode

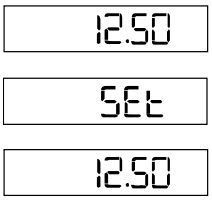
- [MODE] Press the key. (Limit)



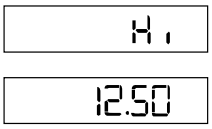
- [SET] Press the key. (Lo)



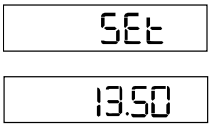
- After place the commodity on the platter, which is need to be set the min. value, [SET] press the key. (SEt)



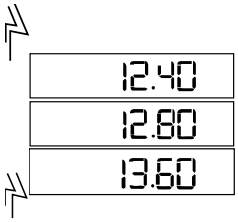
- [SET] press the key. (Hi)



- After place the commodity on the platter, which is need to be set the max. value, [SET] press the key. (SEt)



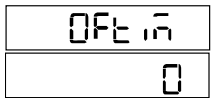
- Scale makes the buzzer when the weighing value is not matched with min. or max value in the limit mode.



6. Auto shut off

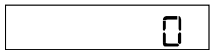
This function is used to prevent the unnecessary discharging when the battery power is using. The power will be shut off automatically (it will be functioned after a certain period of setting time) when the measuring is worked. While the pressing the [*] key, the power must be turned on(OFF TIME).

- Press the [*] key.



- Using the [SET] key, you can choose one of them (15,30~180sec).Then, press the [*] key.

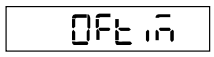
  * The scale has been set as "0" when it is dispatch



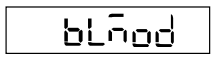
- If the weighing indicates "0", the power will be turned off after setting time. When the scale has to be reacted, it needs to be turned off/on.

7. Back Light

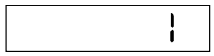
- While the pressing the [*] key, the power must be turned on(OFF TIME)



- Press the [SET] key. (bl mode)



- Press the [*] key.



- Using the [SET] key, one key must be chosen.

  0 : Turn off
  1 : Turn on if the weighing is on
  2 : No using
  3 : Turn on constantly
  4 : Turn on without expectations
  5 : Using the [*] key to get out

<<Working>>

If the actual back light function is needed after setting, press the [*] key about 3 second (Weighing status “0”).

The main propose of this function is for optional working in the darkness while battery operating.

8. Errors table

Error	Meaning	Treatment	Remarks
Zero	Initial zero error	Remove weight on the platter and restart the scale	Same problem still goes on, call the service.
EEP	Memory element has a problem on main PCB	Call the service	
AdC	Analogy PCB has a problem	Call the service	
PArA	Memory problem	Call the service	
BAtt	Battery discharge	Replacement	Optional

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